

Global Vertical Farming and Plant Factory Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vertical Farming and Plant Factory market size is expected to reach \$ 2951 million by 2032, rising at a market growth of 19.2% CAGR during the forecast period (2026-2032).

Vertical Farming and Plant Factory refers to a method of agricultural production in which crops are cultivated in vertically stacked layers or integrated structures within controlled environments such as buildings, containers, or warehouses. By utilizing technologies such as artificial lighting (mainly LED), climate control, hydroponic or aeroponic systems, and automation, vertical farming enables year-round, high-density crop production independent of traditional farmland and weather conditions. This approach maximizes land efficiency, reduces water and pesticide use, and supports urban food security by allowing fresh produce to be grown closer to consumers. In 2024, global Vertical Farming and Plant Factory production reached approximately 104.9 K MT, with an average global market price of around US\$ 7.02 per kg. Global production capacity in 2024 was approximately 130 K MT. Upstream raw materials for Vertical Farming and Plant Factory primarily include LED lighting systems, hydroponic materials and nutrient solutions, and environmental control equipment. The main raw material suppliers include Signify (Philips Lighting), Heliospectra, Osram, Netafim, and Priva. Downstream applications focus on urban food production and fresh produce supply, with major customers including AeroFarms, Plenty, Infarm, Bowery Farming, and Spread Co., etc.

Vertical Farming and Plant Factory represents a transformative approach in modern agriculture, integrating Controlled Environment Agriculture (CEA) technologies with vertical stacking systems to enable continuous, high-yield crop production regardless of external weather conditions. By combining LED lighting, hydroponics, precise nutrient management, and AI-driven automation, vertical farms achieve significantly higher

productivity per square meter while reducing water usage by over 90% and eliminating pesticides.

This report studies the global Vertical Farming and Plant Factory production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vertical Farming and Plant Factory and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vertical Farming and Plant Factory that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vertical Farming and Plant Factory total production and demand, 2021-2032, (MT)

Global Vertical Farming and Plant Factory total production value, 2021-2032, (USD Million)

Global Vertical Farming and Plant Factory production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Vertical Farming and Plant Factory consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Vertical Farming and Plant Factory domestic production, consumption, key domestic manufacturers and share

Global Vertical Farming and Plant Factory production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Vertical Farming and Plant Factory production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Vertical Farming and Plant Factory production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Vertical Farming and Plant Factory market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AeroFarms, Lufa Farms, Gotham Greens, Garden Fresh Farms, Green Sense Farms, TruLeaf, Sky Vegetables, Sky Greens, Spread, GreenLand, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vertical Farming and Plant Factory market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Vertical Farming and Plant Factory Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vertical Farming and Plant Factory Market, Segmentation by Type:

Hydroponics

Aeroponics

Others

Global Vertical Farming and Plant Factory Market, Segmentation by Structure:

Building-based Vertical Farm

Container-based Vertical Farm

Greenhouse-integrated Vertical Farm

Global Vertical Farming and Plant Factory Market, Segmentation by Lighting Source:

Fully Artificial Light

Hybrid/Mixed Lighting

Natural Light Dominant

Global Vertical Farming and Plant Factory Market, Segmentation by Energy Source:

Renewable Energy Powered

Conventional Grid Power

Global Vertical Farming and Plant Factory Market, Segmentation by Application:

Vegetable Cultivation

Fruit Planting

Others

Companies Profiled:

AeroFarms

Lufa Farms

Gotham Greens

Garden Fresh Farms

Green Sense Farms

TruLeaf

Sky Vegetables

Sky Greens

Spread

GreenLand

Travaglini Spa

Planet Farms

ZERO Srl

Granpa Co., Ltd.

Nongzhong Wulian

Sanan Sino Science

Beijing IEDA Protected Horticulture

Plenty (Bright Farms)

Mirai

Key Questions Answered:

1. How big is the global Vertical Farming and Plant Factory market?
2. What is the demand of the global Vertical Farming and Plant Factory market?

3. What is the year over year growth of the global Vertical Farming and Plant Factory market?
4. What is the production and production value of the global Vertical Farming and Plant Factory market?
5. Who are the key producers in the global Vertical Farming and Plant Factory market?
6. What are the growth factors driving the market demand?

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